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inary report from the International Commission on the Teaching of Mathematics; and Section B plans to devote one session to a discussion of the teaching of physics. The Social Education Club, of Boston, plans to hold one evening meeting with a program that should be of particular interest. The Eastern Association of Physics Teachers, the Association of Mathematical Teachers in New England and the Association of Physics Teachers of Washington expect to hold meetings and render programs that will be valuable to those interested in educational matters.

The American Federation of Teachers of the Mathematical and Natural Sciences will hold its annual business meeting on Monday afternoon. The American Nature Study Society will meet on Saturday morning to discuss the problem of physical nature study. All of these meetings are open to the public.

THE AMERICAN PHYSIOLOGICAL SOCIETY

THE preliminary program of the twenty-second annual meeting to be held at the Harvard Medical School, Boston, December 28-30, is as follows:

Tuesday, December 28

9:00 A.M.—Reading of papers, followed by a business session after 12 o'clock.

2:30 P.M.—Meeting of Section K—Physiology and Experimental Medicine—American Association for the Advancement of Science. (Lecture Room, Building, of Harvard Medical School). Address of the retiring vice-president, W. H. Howell.

Discussion of the Ductless Glands.

R. H. Chittenden, General Chemical Aspect of Internal Secretion.

S. P. Beebe, Thyroid.

J. V. Cooke, Parathyroid.

Harvey Cushing, Hypophysis.

W. G. MacCallum, Pancreas.

Swale Vincent, Suprarenal.

8:30 P.M.—Joint smoker with the Association of American Anatomists and the American Society of Biological Chemists at the Hotel Westminster, Copley Square.

Wednesday, December 29

9:00 A.M.—Joint session of the American Society

of Biological Chemists and the American Physiological Society.

2:00 P.M.—Visit to the Carnegie Nutrition Laboratory (by invitation of Dr. F. G. Benedict).

3:00 P.M.—Physiological demonstrations (Harvard Physiological Laboratories).

Thursday, December 30

9:00 A.M.—Reading of papers, followed by a business session after 12 o'clock.

2:00 P.M.—Demonstrations.

THE AMERICAN SOCIETY OF NATURALISTS

THE American Society of Naturalists will meet at the Harvard Medical School, Boston, Mass., on Wednesday, December 29, 1909.

The program will consist of original papers and demonstrations of studies on evolution. The following papers are promised and a few others will probably be added to the list:

E. M. East: "A Mendelian Interpretation of Variation that is apparently Continuous."

J. B. Watson: "The Problem of Determining Color Vision in Animals."

W. L. Tower: Title not yet received.

G. H. Shull: "The Inheritance of Sex in *Lychis alba*."

Frank E. Lutz: "Experiments concerning the Reversion of Domesticated Races to the Wild Type."

W. J. Spillman: "Mendelian Phenomena Independent of de Vriesian Hypotheses."

J. Reighard: "Biological Meaning of Conspicuousness in Animals."

T. H. Montgomery: "Sexual Selection in Spiders."

D. H. MacDougal: "Origination of Parasitism in the Higher Plants."

Anne M. Lutz: "The Relation of Chromosome Number to Vegetative Characters in the *Urnothera*."

H. S. Jennings: "Experimental Evidence on the Effectiveness of Selection."

C. H. Eigenmann: "The Divergence and Convergence in Characins."

Ulric Dahlgren: "Origin of the Electric Tissues in Teleost Fishes."

W. E. Castle: "On the Nature of Mendelian Factors."

R. R. Gates: "The Material Basis of Mendelian Phenomena."

E. Brainard: "The Evolution of New Forms in *Viola* through Hybridism."

A. F. Shull: "The Artificial Production of the

Parthenogenetic and Sexual Phases in the Life Cycle of *Hydatina senta*."

Franz Boas: "The Influence of Heredity and of the Environment on Man."

C. W. Beebe: "Racket Formation in the Tail Feathers of the Mot-mot."

Most of the papers will be illustrated by actual specimens or other demonstrations and time will be allowed for discussion. The society will probably meet in two sessions, morning and afternoon.

The Naturalists' dinner will be held on the evening of Wednesday, December 29, when the address of the president, Professor T. H. Morgan, will be delivered on "Chance or Purpose in the Evolution of Adaptations."

As previously, members of the special societies devoted to biological sciences are invited to attend the dinner of the naturalists.

Those expecting to attend the dinner will greatly oblige the committee in charge, if they will notify Dr. R. P. Bigelow, Massachusetts Institute of Technology, Boston, Mass., at the earliest opportunity.

H. McE. KNOWER,
Secretary

SCIENTIFIC NOTES AND NEWS

THE Nobel prizes for the present year have been awarded as follows:

For Physics—Divided between Mr. Guglielmo Marconi and Professor Ferdinand Braun, of Strassburg.

For Chemistry—Professor Wilhelm Ostwald, of Leipzig.

For Physiology or Medicine—Professor Theodor Kocher, of Berne.

For Literature—Selma Langerlof, the Swedish authoress.

For the Promotion of Peace—Baron D'Estournelles de Constant, president of the French parliamentary group for international arbitration, and M. Beernaert, former Minister of State of Belgium.

THE address of the retiring president of the American Association for the Advancement of Science, Professor T. C. Chamberlin, of the University of Chicago, will be given in Sanders Theater, Harvard University, on Monday evening, December 27, and will be followed by a reception in Memorial Hall.

DR. MAX VERWORN, professor of physiology in the University of Göttingen, will be the next Silliman lecturer at Yale University.

THE medical faculty of the University of Budapest has offered the chair of experimental biology to Professor Jacques Loeb, of the University of California. Professor Loeb lectured before the International Medical Congress at Budapest last September and delivered a course of lectures at the University of Budapest in June.

MR. FRANCIS DARWIN, F.R.S., has been made doctor of the University of Brussels and a corresponding member of the Institut National of Geneva.

A COMMITTEE has been formed at Cambridge to present a portrait to Mr. A. E. Shipley, F.R.S., lecturer in natural science at Christ's College and university reader in zoology.

THE American Institute of Electrical Engineers has appointed Professor A. E. Kennelly, of Harvard University, president of the United States national committee of the international electrotechnical commission.

THE Royal Meteorological Society has awarded the Symons gold medal to Dr. W. N. Shaw, F.R.S., in recognition of his work for meteorology.

SINCE the return of the DeMilhau Peabody Museum South American Expedition, Dr. William C. Farabee has received from the *Universidad Mayor de San Marcos de Lima* a diploma as honorary member of the faculty of sciences in the university, for "scientific merits and important services rendered to the government of Peru." Besides the formal communication from the university, a personal letter from the president of the republic accompanied the diploma.

MAJOR CHARLES E. WOODRUFF, of the medical corps of the U. S. A., has been detailed as the medical officer in charge on the Island of Corregidor, at the mouth of Manila Bay, where extensive fortification construction is being done.

DR. WALTER LEHMAN, of the Royal Ethnographical Museum, of Berlin, has returned from an expedition to Central America and